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Extrusion method for removing volatile contents from solid state resin materials and apparatus therefor

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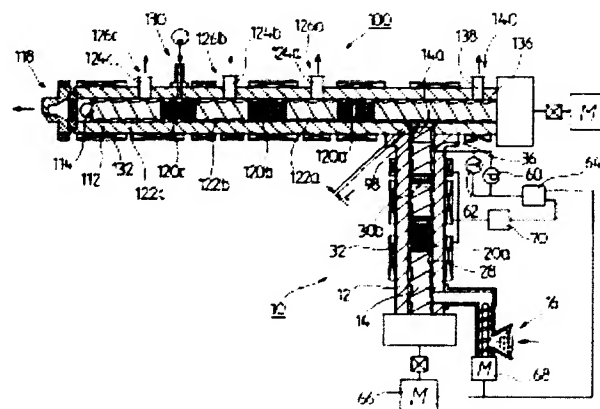
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An extrusion method and apparatus for removing volatile contents from solid state resin materials is described. A cascade-type extruding device is used having first and second extruders. A top end portion of the first extruder 10 is directly connected to a rear side portion of a cylinder of the second extruder 100. Volatile contents of a melted resin, which is melted when the solid state resin material is supplied to the first extruder, are removed in a volatile content removing vacuum unit provided on an upstream side of the connection between the first and second extruders. The melted resin is then extruded from a nozzle provided at a top end portion of the second extruder. The volatile content removing vacuum region of the volatile content removing vacuum unit 140 extends over a first region, which is under the control of the first extruder, and a second region, which is under the control of the second extruder. The pressure and temperature of the melted resin in the first region are controlled in accordance with the properties of the melted resin.



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[54]发明名称 从固态树脂材料中去除挥发物成分的挤压方法及其设备

[57]摘要

一种将挥发物成分从固态树脂材料中去除的挤压方法，其中的级联型挤压装置具有一第一挤压器和一第二挤压器，其中的挥发物成分通过设置在第一和第二挤压器之连接部分上游侧的挥发物成分的真空去除机构被去除，接着，熔融的树脂材料从第二挤压器顶端部的喷嘴中挤出。一挥发物成分真空去除机构 140 的真空去除区域遍布在一由第一挤压器控制的第一区域和一由第二挤压器控制的第二区域。且根据树脂不同性质来控制第一区域内压力和温度。

